PAT & TRA

Sheet

Approved for use through 10/31/2002. OMB 0651-0031

not yet known

269/106

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Examiner Name

Attorney Docket Number

Substitute for form 1449A/PTO Complete if Known Application Number 10/038,730 NFORMATION DISCLOSURE Filing Date January 2, 2002 STATEMENT BY APPLICANT First Named Inventor Robert M. Abrams, et al **Group Art Unit** 1632 (use as many sheets as necessary)

U.S. PATENT DOCUMENTS U.S. Patent Document Pages, Columns, Lines, Where Relevant Passages or Relevant Name of Patentee or Applicant of Cited Document Date of Publication of Examine Cite No. Kind Code² Cited Document Initials Number MM-DD-YYYY Figures Appear (if known) 3,701,771 10-31-1972 Torsen et al 4,364,921 2 Speck et al 12-21-1982 3 4,551,132 04-26-1988 Pasztor et al 4 4,739,768 Engelson et al 04-26-1988 5 4,795,741 Leshchiner et al 01-03-1989 6 4.994.069 Ritchart et al 02-19-1991 7 5.041.090 Shelglov etal 08-02-1991 8 5,122,136 Guglielmi et al 06-16-1992 5,202,352 9 Okada et al 04-13-1993 10 5,234,437 Sepetka 08-10-1993 11 5,250,071 10-05-1993 Palermo 12 5,261,916 Engelson 11-16-1993 13 5,304,195 Twyford et al 04-19-1994 14 5,310,407 Casale 05-10-1994 15 5,354,295 Guglielmi et al 10-11-1994 16 5,403,278 04-04-1995 Emst et al 17 5,443,454 Tanabe et al 08-22-1995 18 5,536,274 Nuess 07-16-1996 19 5,537,338 Coelho 07-16-1996 20 5,580,568 Greff et al 12-03-1998

	FOREIGN PATENT DOCUMENTS									
Eug-ing.	Cita	Foreign Patent Document			Name of Patentee	Date of Publication of	Pages, Columns, Lines,			
Examiner Cite Initials* No.1		Office ³	Number ⁴	Kind Code ⁵ (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T ₆		
ILS	47	wo	96/21427			07-18-1996				
	48	wo	97/45131			10-04-1997				
I 7	49	wo	98/16265			04-23-1998				
\mathcal{D}_{Δ}	50	wo	98/27962			07-02-1998				
, , ,										

	M_{Ω}	<u>//</u>			
Examiner Signature	MA		Date Considered	5/50	105

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark hee if English language Translation is attached.

Please type a plus sign (+) inside this box (+)

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

THE TO CHEST	0.5. Faterit and Trademark Office. 0.5. DEPARTMENT OF COMMERCE
Under the Papething Baddiction Act of 1995, no persons	are required to respond to a collection of information unless it contains a valid OMB control number.
Substitute for form 1449A/PTO	C. molete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 4

C mplete if Known							
Application Number	10/038,730	一一一					
Filing Date	January 2, 2002	至					
First Named Inventor	Robert M. Abrams, et al.	$\overline{\Omega}$					
Group Art Unit	1632						
Examiner Name	not yet known	ENTE					
Attorney Docket Number	269/106	3					

			U.S. PATENT DOCUM	MENTS	
Examiner Initials *			Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ES	21	5,614,204	Cochrum	03-25-1997	
1	22	5,624,461	Mariant	04-29-1997	
· [23	5,639,277	Mariant el at	06-17-1997	<u> </u>
	24	5,648,082	Sikes	07-15-1997	
	25	5,649,949	Wallace et al	07-22-1997	
	26	5,649,959	Hannam et al	07-22-1997	
1	27	5,667,767	Greff et al	09-16-1997	
	28	5,669,931	Kupiecki et al	09-23-1997	
	29	5,690,666	Berenstein et al	11-25-1997	
	30	5,695,480	Evans et al	- 12-09-1997	
	31	5,702,361	Evans et al	12-30-1997	
	32	5,749,894	Engelson	05-12-1998	
	33	5,776,097	Massoud	07-07-1998	
	34	5,785,679	Abolfathi et al	07-28-1998	
	35	5,795,331	Cragg et al	08-18-1998	
T	36	5,823,198	Jones et al	10-20-1998	
\mathcal{I}	37	5,826,587	Berenstein et al	10-27-1998	
	38	5,830,178	Jones el at	11-03-1998	
į.	39	5,851,508	Greff et al	12-22-1998	
1	40	5,652,225	Isner	07-1997	İ

				FOREIGI	N PATENT DOCU	MENTS	· · ·	
Examiner Initials*	Cite No.1	For Office ³	eign Patent D Number ⁴	Kind Code ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant	т,
				(ii dioiii)			Figures Appear	
		<u> </u>						

Examiner Signature	Alsk	Date Considered	5/5/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark hee if English language Translation is attached.

•		E
Please type a plus sign (+) inside this box	→ RR 1 1	2002
	۸	T.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002, OMB 0651-0031* U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction ASS 1996, no persons ere required to respond to a collection of information unless it contains a valid OMB control number. & TRADEMIN

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known						
Application Number	10/038,730					
Filing Date	January 2, 2002					
First Named Inventor	Robert M. Abrams, et al.					
Group Art Unit	1632					
Examiner Name	not yet known					
Attorney Docket Number	269/106					

						Application Nu	rwper	10/0	38,730	J≓
INFO	RMA	TION	DIS	CLOS	URE	Filing Date		Janu	ary 2, 2002	豆
STAT	STATEMENT BY APPLICANT					First Named Inventor F		Robe	Robert M. Abrams, et al.	
	-						t	1632	2]兴
	(use as	many she	ets as	necessary)	Examiner Nan	ne	not y	vet known]=
Sheet	3		of	4		Attorney Dock	et Number	269/	106	B B B
	-							•		-중
					U.S. PA	TENT DOCU	MENTS			18
		U.S.	Patent [Document		entee or Applicant	Date of Publicat	tion of	Pages, Columns, Lines, Where Relevant	12
Examiner Initials	Cite No. ¹	Number	•	nd Code ² known)	of Cite	d Document	Cited Docum	nent	Passages or Relevant Figures Appear	1600/2900
149	41	5,93	5,145	1	Vill	ar et al	10-1999)		1
	42	4,642	2,111		Saka	moto el at	07-1997	, , , , , , , ,		1
	43		5,925,683			Park	07-20-1999]
	44		5,384			ns et al.	01/01/200			1
	45 46		1,263	<u> </u>	+	ns et al.	08/28/2001			4
	46	6,017	7,977		Eva	ns et al.	01/25/200)()		┨
 		 			 			•		-
					 					1
		1	·····							1
]
]
				-	ļ		<u> </u>			4
										4
		 								┨
		 		 			<u> </u>			†
				+	 		-			1
				1						1
										1

				FOREIG	N PATENT DOCU	MENTS		
Functions	Cian	Foreign Patent Document		cument	Name of Patentee	Date of Publication of	Pages, Columns, Lines,	
Examiner Initials*	Cite No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T ₆
		- 						
		1					, /	
Examiner Signature		1/1/	B		Date Consid	ered	16/05	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark hee if English language Translation is attached.

Approved for use through 10/31/2002, OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Substitute for form 1449A/PTO

EINFORMATION DISCLOSURE EMENT BY APPLICANT

Examiner

Signature

e as many sheets as necessary) of

O							
Complete if Known							
Application Number	10/038,730						
Filing Date	January 2, 2002						
First Named Inventor	Robert M. Abrams, et al						
Group Art Unit	1632						
Examiner Name	not yet known						
Attorney Docket Number	269/106						

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
25	51	Dondelinger et al., eds. *Interventional Radiology*. Thieme Medical Publishers, Inc.: NY, 1990, pp. 295-313	
	52	Mandai et al. (October 1992). "Direct Thrombosis of aneurysms with cellulose acetate polymer: Part I: Results of thrombosis in experimental aneurysms", J. Neurosurg. 77: 497-500	
	53	Sugawara et al. (1993). "Experimental investigation concerning a new liquid embolization method: Combined administration of ethanol-estrogen and polyvinil acetate," Neurol. Med. Chir. (Tokyo) 33:71-76	
	54	Takahashi et al. "Nonsurgical treatment of AVM: Development of new liquid embolization method," in Advances in Surgery for Cerebral Stroke. Suzuki, J. ed., Tokyo, Japan: Springer-Verlag, 1988, pp. 215-224	
	55	Taki et al. (January/February 10990). "A New Liquid Material for Embolization of Arteriovenous Malfrormations," AJNR 11:163-168	
	56	Vinters et al. (1985). "The histotoxocity of cyanoacrylates: A selective review," Neuroradiol. 27:279-291	
25	57	Shively, M. L. et al (1995) "Physico-Chemical Characterization of a Polymeric Injectable Implant Delivery System", J. Controlled Release 33:237-243	
		·	
_			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date

Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.